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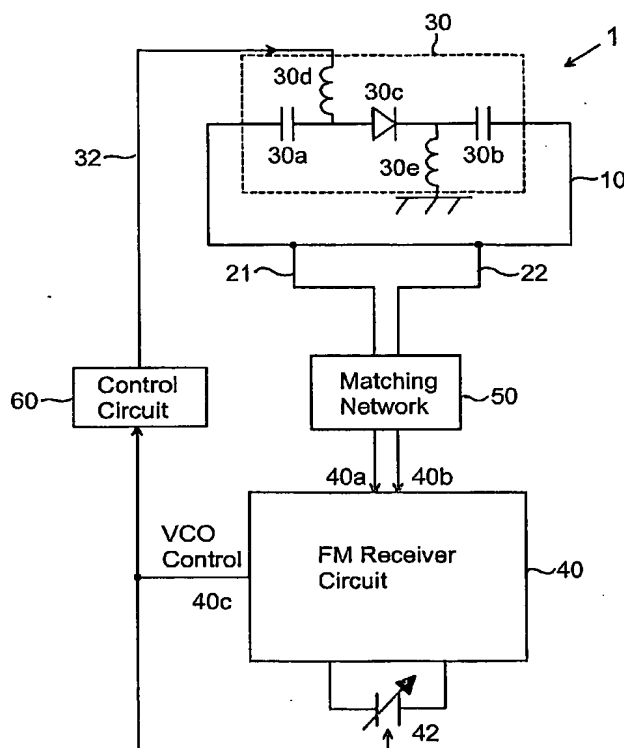
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(54) Title: ANTENNA DEVICE AND PORTABLE RADIO COMMUNICATION DEVICE COMPRISING SUCH ANTENNA  
DEVICE



(57) Abstract: An antenna device for a portable ra-  
dio communication device adapted for receiving radio  
signals comprises an internal radiating element (10)  
comprising at least one feeding portion (21, 22) con-  
nected to a receiver circuit (40). The radiating ele-  
ment (10) comprises an electrical impedance (30) that  
is controllable in dependence on the desired frequency  
range of the received signals, wherein the feeding por-  
tion (21, 22) is connected to a feeding input (40a, 40b)  
on the receiver circuit and the control input of the con-  
trollable electrical impedance (30) is connected to an  
output (40c) on the receiver circuit (40) intended for  
the control of the VCO resonance frequency of the re-  
ceiver circuit. In that way an antenna device can be  
provided inside the casing of a small sized portable  
radio communication device, which has good perfor-  
mance throughout a narrow sub-band of a frequency  
band having a relatively low frequency, wherein the  
narrow sub-band can be adjusted in frequency so as to  
cover the entire frequency band, such as the FM radio  
band.

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